hp monitor crt performance line

A clear view forward to a brighter sharper world

A monitor brings your idea into the light of day, giving it shape, clarity and color. The HP performance Line of monitors gives substance to your ideas. For the bold strokes, it offers you brilliant, honest color. For the well-conceived plan, it provides pixel-level clarity and razor-sharp resolution.
Its flat screens, give you picture perfection, free of distortion. And their fast refresh rates give your eyes the benefit of steady, flicker-free image.

Whether it's CAD/CAE, graphic design, 3D modeling, digital content creation or hiqh performance office applications, the HP monitor performance line delivers superb front of screen performance and visual comfort.

Easy to buy, own and support

The HP Monitor Performance Line caps off their outstanding performance with highly competitive prices.

Backed by Hewlett-Packard's three-year exchange international hardware warranty, our monitors promise enduring performance. Compliant with major environmental, and power consumption specifications, the HP P700, P910 and HP P1110 minimize energy consumption, reducing the long-term cost of ownership.

If asset management is a concern, the Performance family lets you retrieve serial numbers, monitor resolutions, and model names – even when the monitor is off – when coupled with HP Vectra or HP Kayak PCs and TopTools.

If you need business level performance from your monitor, at a competitive price, could there be a clearer choice than the HP monitor Performance Line?

Superb front of screen quality

- Built around the best and latest technologies, Performance Line monitors deliver vivid colors, sharp character definition, and excellent color uniformity across the screen.
- Super fine stripe pitch (0.24 mm) for exceptional definition.
- Superior resolution and refresh rates (hp P700, 1024 x 728 @ 85Hz; HP P1110, 1800 x 1440 @ 80Hz; HP P910 1600 x 1200 @ 85Hz) make the Performance family of monitors ideal for high performance office and graphics intensive applications.

Ergonomically designed to meet the strictest standards

- Plug & Play installation meets industry-standard DDC2b VESA guidelines.
- Meets stringent MPRII, MPRIII, TCO99, Energy Star and Blue Angel guidelines for low electrostatic emission, environmental specifications and power consumption.
- Convenient on-screen menu display lets users control standard monitor parameters and fine tune orthogonality, color purity and image placement.

Visually flat screen promises better ergonomics for the human eye when compared to conventional cathode ray tubes.

key features hp P1100

- Ergonomic 21-inch monitor (19.8-inch viewable image)
- Expert display quality thanks to Sony FD Trinitron(TM) aperture grille flat face tube, offering perfectly bright colors, sharp characters and excellent color uniformity.
- 1800x1440 @80Hz max resolution for perfectly stable image VESA GTF compliant
- Super Fine Stripe pitch (0.25mm) for very sharp characters.
- sRGB support for better color matching
- Meets stringent Swedish Low Emissions guidelines MPRIII as well as the TCO99 guidelines for low electrostatic emissions and environmental specifications .
- Meets German's Blue Angel guidelines for power consumptio and environmental specifications.
- Automatic Display Power Management System along with HP Vectra PCs for major power consumption reduction up to 97%. Meets EPA Energy Star and NUTEK standards for low power consumption.
- Easy installation on Display Plug&Play compatible PCs thanks to the support of Plug&Play standard DDC1 and DDC2Bi as defined by VESA.
- Easier asset management together with HP Vectra Desktop PCs and HP Top Tools, even when the monitor is switched off.
- Three years warranty on parts and labor.

Technical information hp P1100 D2847A

CRT size

- 21-inch, 19.8-inch viewable

CRT type

- Sony FD Trinitron (TM) Aperture Grille Tube,
- Stripe-pitch 0.25mm,
- Anti-reflection and anti-static;
- P22 Phosphor (medium short persistence)
- Sony FD Trinitron (TM) Aperture Grille Tube,
- Stripe-pitch 0.25mm,

Active area

- Standard: 393 mm. (15.65 in) x 293 mm. (11.67 in)
- In full scan: 402.6 mm. (15.85 in) x 301.6 mm. (11.89 in)

Scan Frequency

- Horizontal frequency: 29-121 kHz300 Mhz
- Vertical: 50-180 Hz

Maximum Pixel Rate

- kHz300 Mhz

Video Bandwidth

- 100MHz +/- 3db
- 390 x 359 x 170 mm (15.2 × 13.8 × 6.7 in)

Resolutions and refresh rates (rr)

Resolution	Max rr	VESA rr
640x480	180Hz	85Hz
800x600	180Hz	85Hz
1024x768	144Hz	85Hz

Resolution	Max rr	VESA rr
1280x1024	110Hz	85Hz
1600x1200	95Hz	85Hz
1800x1440	80Hz	80Hz (Non VESA mode)

Maximum Non-Interlaced resolution:

- 1800x1440 at 80Hz (Non VESA mode)

Video Input Signal

- Red/Green/Blue analog
- 0.0 to 0.70 volts P-P
- Separate vertical and horizontal sync (standard cable),
- Support VESA DDC1 and DDC2Bi Display Data Channel standards for Display Plug&Play.

Input Terminal

- 15-pin D-sub female connector

User controls

- On screen displayed menu with user controls for horizontal and vertical image size and positioning, 8 pre-set color temperatures, which can be user-programmable (separate R/G/B regulations), image geometry (pin-cushioning, trapezoidal, rotation, and orthogonality) controls, degauss, Moiré cancellation, corner purity correction, top/bottom color purity, convergence (h/v/pre-set). Provides information on active resolution, languages.

Pre-set modes:

- 12 preset video modes; 15 additionally programmable

AC Power Requirements

- 90-264V (Auto-ranging), 47-63 Hz

Typical power consumption

- 160 W maximum down to 90W in standby mode, less than 10W in suspend mode and less than 3W in Active Off mode, depending on the PC's Power Management System. VESA DPMS compliant

Plug & Play

- Supports Display Plug&Play guidelines according to VESA DDC1/2Bi. PC99 compliant

Technical information hp P1100 D2847A

Technical specifications		
Misconvergence	• Center: 0.3 mm	• Circumference: 0.35 mm
Display Linearity	• Less than 5% adjacent non-linearity; 8 % non adjacent (in preset modes above 58 kHz)	
Display geometry	• Less than 2 mm distortion per edge	
Tilt/swivel angles	• -5 to +15 degrees vertical	• +/- 90 degrees horizontal

Warranty

- 3-year parts and labor warranty - Including backlights (first year on-site, second and third year carry-in)

Environmental Conditions		
Altitude	• Operating: 0 - 10,000 f	• Storage: 0 - 30,000 ft
Humidity	• 10 to 80% relative humidity (non-condensing)	
Temperature	• Operating: 0C through +40C	• Storage: -20C through +60C

Regulatory specifications

- IEC60950, EN60950, CISPR22 Class B, European EMC Directive 89/336/EEC amended by the Directive 93/68/EEC and to the Low Voltage Directive 73/23/EEC
- UL Listed, DHHS, TUV-GS, FIMKO, SEMKO and NEMKO, NOM-NYCE, IAA, FCC Class B, Canada CSA, VCCI Class B, RRL, C-Tick, CCIB, BCIQ
- ISO9241-3/-7/-8 for ergonomics, MPRII, MPRIII level A and TCO99 for low emissions, German PTB X-ray decree, German Blue Angel
- EPA Energy Star for low power consumption

key features hp P910

- Ergonomic 19-inch monitor (18.0-inch viewable image)
- Expert display quality thanks to Sony FD Trinitron® aperture grille flat face tube, offering perfectly bright colors, sharp characters and excellent color uniformity.
- 1600x1200 @85Hz max resolution for perfectly stable image VESA GTF compliant
- Super Fine Stripe pitch (0.25mm) for very sharp characters.
- SRGB support for better color matching
- Meets stringent Swedish Low Emissions guidelines MPRIII as well as the TCO99 guidelines for low electrostatic emissions and environmental specifications .
- Meets German's Blue Angel guidelines for power consumption and environmental specifications.
- Automatic Display Power Management System along with HP Vectra PCs for major power consumption reduction up to 97%. Meets EPA Energy Star and NUTEK standards for low power consumption.
- Easy installation on Display Plug&Play compatible PCs thanks to the support of Plug&Play standard DDC1 and DDC2Bi as defined by VESA.
- Easier asset management together with HP Vectra Desktop PCs and HP Top Tools, even when the monitor is switched off.
- Three years warranty on parts and labor.

Technical information hp P910 D8910A

CRT size

- 19-inch, 18.0-inch viewable

CRT type

- Sony FD Trinitron® Aperture Grille Tube,
- Aperture Grille pitch 0.25mm,al
- Anti-reflection and anti-static;
- P22 Phosphor (medium short persistence

Active area

- Maximum viewable image size 364mm (hor.) x 273mm(ver.)
- Maximum viewable image size shall be equal | to the bezel opening area.
- Nominal size (Pre-set modes)
  Horizontal 354 ± 5 mm
  Vertical 265 ± 5 mm

Scan Frequency

- Horizontal frequency: 29-107 kHz
- Vertical: 50-150 Hz

Maximum Pixel Rate

- 230 Mhz

Technical information hp P910 D8910A

Video Bandwidth

- 80MHz +/- 3db

Resolutions and refresh rates (rr)

Resolution	Max rr	VESA rr
640x480	150Hz	85Hz
800x600	150Hz	85Hz
1024x768	130Hz	85Hz
1280x1024	99Hz	85Hz
1600x1200	85Hz	85Hz

Maximum Non-Interlaced resolution:

- 1600x1200 at 85Hz

Video Input Signal

- Red/Green/Blue analog
- 0.0 to 0.70 volts P-P
- Separate vertical and horizontal sync (standard cable), Support VESA DDC1 and DDC2Bi Display Data Channel standards for Display Plug&Play.

Input Terminal

- 15-pin D-sub female connector

User controls

- On screen displayed menu with user controls for horizontal and vertical image size and positioning, 8 pre-set color temperatures, which can be user-programmable (separate R/G/B regulations), image geometry (pin-cushioning, trapezoidal, rotation, and orthogonality) controls, degauss, Moiré cancellation, convergence (h/v/pre-set). Provides information on active resolution, languages.

Video modes

- 5 preset video modes; 6 pre-load modes
- Monitor is VESA General Timing Formula (GTF) compatible.

AC Power Requirements

- 90-264V (Auto-ranging), 47-63 Hz

Typical power consumption

- On 130 W max
- Standby On 90W max
- Suspend (Red) 10W
- Active Off (Red) <3W
- depending on the PC's Power Management System. VESA DPMS compliant

Plug & Play

- Supports Display Plug&Play guidelines according to VESA DDC1/2Bi. PC99 compliant

Technical specifications

Misconvergence
- Center: 0.25 mm
- Circumference: 0.35 mm

Display Linearity (in preset modes above 58 kHz)
- Less than 5% adjacent non-linearity; 8 % non adjacent

Display geometry
- Less than 2 mm distortion per edge

Tilt/swivel angles
- -5 to +15 degrees vertical
- +/- 90 degrees horizontal

Environmental Conditions

Altitude
- Operating: 0 - 10,000 ft
- Storage: 0 - 30,000 ft

Humidity
- 10 to 80% relative humidity (non-condensing)

Temperature
- Operating:0C through +40C
- Storage: -20C through +60C

Physical specifications

- Height: 471mm (18.54 in)
- Width: 470.1mm (18.5 in)
- Depth: 464.3mm (18.3 in)
- Weight: 25.5 kg (55.66 Lbs net)

Regulatory specifications

- IEC60950, EN60950, CISPR22 Class B, European EMC Directive 89/336/EEC amended by the Directive 93/68/EEC and to the Low Voltage Directive 73/23/EEC
- UL Listed, DHHS, TUV-GS, FIMKO, SEMKO and NEMKO, IAA, FCC Class B, Canada CSA, VCCI Class B, RRL, CCIB, BCIQ
- ISO9241-3/-7/-8 for ergonomics, MPRII, MPRIII level A and TCO99 for low emissions, German PTB X-ray decree, German Blue Angel
- EPA Energy Star for low power consumption

key features hp P700

- Ergonomic 17-inch Perfectly Flat CRT monitor (16.0-inch viewable area)
- Flatron CDT for flat screen and distortion free image
- Superfine stripe pitch of 0.24mm
- Wide ARAS coating for high contrast and very low reflection of light from external sources
- Recommended resolution 1024x768@85Hz support for 1280x1024@75Hz as well as 1600x1200@60Hz
- VESA DPMS compliance, EPA Energy star compliance for power saving
- Plug and Play, compatible with DDC2B and PC99
- Easier asset management together with HP PCs and HP Top Tools
- On Screen Display with advanced controls
- MPRII, TCO 99
- 3-year warranty

Technical information hp P700 D8906A

CRT size
- 217-inch (43.2 cm), 16.0 inch (40.6 cm) maximum viewable

CRT type
- Perfectly Flat , stripe pitch 0.24mm, Wide-ARAS anti-glare and anti-static tube coating. P22 Phosphor (medium-short persistence)

Active area
- Pre-set mode: 310mm (12.2 in) x 230mm (9.05 in)
- I Maximum size: 325mm (12.7 in) x 244mm (9.6in)

Scan Frequency
- Horizontal frequency : 30- 86kHz
- Vertical : 50-160Hz Multisync

Maximum Pixel Clock
- 140 MHz

Theoretical Maximum Refresh rate
- 163Hz at 640x480
- 133Hz at 800x600
- 105Hz at 1024x768
- 80Hz at 1280x1024
- 60Hz at 1600x1200

Maximum VESA standard Refresh rate
- 85Hz at 640x480
- 85Hz at 800x600
- 85Hz at 1024x768
- 75Hz at 1280x1024
- 60hz at 1600x1200

Video Input Signal
- Red/Green/Blue analog
- 0.7 volts P-P

Video Input Connector
- Video cable terminated with 15-pin D-sub male mini connector

User controls
- Contrast, brightness, horizontal and vertical image size and positioning, side pincushion, side pincushion balance, trapezoid, parallelogram, top/bottom corners, rotation, horizontal and vertical moire, horizontal convergence, purity, color temperature and control, manual degauss, pre-set modes recall, OSD position, 5 languages OSD
- Automatic degauss at power on

Pre-set and pre-load modes
- 10 factory preset video modes

AC Power Requirements
- 90-264V (Autoranging), 47-63 Hz

Power consumption
- Max 130W
- Typical power consumption 110W down to 8W maximum in StandBy/Suspend mode and 3W maximum in Off modes

Plug & Play
- Supports Monitor Plug&Play guidelines according to VESA DDC1 and DDC2B PC99 compliant

USB
- No

Technical specifications

Misconvergence	• Center: 0.30 mm	• Circumference: 0.40 mm
Monitor Linearity (pre-set mode)	• Less than 8% entire linearity, less than 5% adjacent linearity	
Monitor geometry	• Less than 2.0 mm distortion per edge	
Tilt/swivel angles	• -5 to +15.0 degrees vertical	• +/- 45 degrees horizontal

Technical information hp P700 D8906A

Environmental Conditions	
Altitude	• Operating: 0 - 10,000 ft • Storage: 0 - 45,000 ft
Humidity	• 8 to 85% relative humidity (non-condensing)
Temperature	• Operating:0C through +40C • Storage: -20C through +45C
Physical specifications	
Monitor with Tilt&Swivel pedestal	• Height: 435 mm (17.12 in) • Width: 415 mm (16.33 in) • Depth: 442 mm (17.40 in) • Weight: 19.2 kg (42.2 lbs. net)
Regulatory specifications	
Low frequency emissions :	• MPRII
Safety	• UL listed, CSA certified, EN60950, NEMKO, TUV GS Mark, CE Mark,
Electromagnetic compatibility (EMC)	• EN55022 Class B, EN50082-1, CISPR22 Class B, AS/NZS3548: 1992, FCC Class B, VCCI Class B
Ergonomics / Environment	• TCO99, ISO 9241-3/-7/-8, German X-Ray Decree 01-08-87, DHHS CFR21,
Power saving and environmental	• Energy STAR